JAVA.UTIL.TIMER CLASS

Introduction

The **java.util.Timer** class provides facility for threads to schedule tasks for future execution in a background thread.

- This class is thread-safe i.e multiple threads can share a single Timer object without the need for external synchronization.

- This class schedules tasks for one-time execution, or for repeated execution at regular intervals.

- All constructors start a timer thread.

Class declaration

Following is the declaration for **java.util.Timer** class:

```
public class Timer
    extends Object
```

Class constructors

S.N.	Constructor & Description
1	**Timer()** This constructor creates a new timer.
2	**Timer(boolean isDaemon)** This constructor creates a new timer whose associated thread may be specified to run as a daemon.
3	**Timer(String name)** This constructor creates a new timer whose associated thread has the specified name.
4	**Timer(String name, boolean isDaemon)** This constructor creates a new timer whose associated thread has the specified name, and may be specified to run as a daemon.

Class methods

S.N.	Method & Description
1	void cancel() This method terminates this timer, discarding any currently scheduled tasks.
2	int purge() This method removes all cancelled tasks from this timer's task queue.
3	void schedule(TimerTask task, Date time) This method schedules the specified task for execution at the specified time.

4	void schedule(TimerTask task, Date firstTime, long period) This method schedules the specified task for repeated fixed-delay execution, beginning at the specified time.
5	void schedule(TimerTask task, long delay) This method schedules the specified task for execution after the specified delay.
6	void schedule(TimerTask task, long delay, long period) This method schedules the specified task for repeated fixed-delay execution, beginning after the specified delay.
7	void scheduleAtFixedRate(TimerTask task, Date firstTime, long period) This method schedules the specified task for repeated fixed-rate execution, beginning at the specified time.
8	void scheduleAtFixedRate(TimerTask task, long delay, long period) This method Schedules the specified task for repeated fixed-rate execution, beginning after the specified delay.

Methods inherited

This class inherits methods from the following classes:

- java.util.Object